Amendments to the Claims:

Claims 1-34 Cancelled.

- 35. (Currently Amended) An immunogenic composition comprising a fusion protein comprising an isolated polypeptide wherein the polypeptide comprises a member selected from the group consisting of
 - (a)—an amino acid sequence which has at least 90% identity to SEQ ID NO:2 over the entire length of SEQ ID NO:2 and a fusion partner;
 - (b) an immunogenic fragment of the amino acid sequence of (a), wherein the immunogenic fragment is at least 90% identical to an aligned contiguous segment of SEQ ID NO:2; and
 - (e) an immunogenic fragment of the amino acid sequence of (a) that matches an aligned contiguous segment of SEQ ID NO:2 with no more than five single amino acid substitutions, deletions or additions,

wherein the <u>immunogenic</u> composition, when administered to a subject, induces an immune response that recognizes a polypeptide <u>comprising having</u> the sequence of SEQ ID NO:2.

- 36. (Currently Amended) The immunogenic composition of Claim 35 wherein the amino acid sequence comprises has at least 95% identity to SEQ ID NO:2 or the aligned contiguous segment of SEQ ID NO:2.
- 37. (Currently Amended) The immunogenic composition of Claim 36 wherein the polypeptide has the amino acid sequence of is SEQ ID NO:2.
- 38. (Cancelled).
- 39. (Cancelled).
- 40. (Cancelled).

- 41. (Cancelled).
- 42. (Cancelled)
- 43. (Withdrawn): An isolated polynucleotide encoding an polypeptide of Claim 35.
- 44. (Withdrawn): An expression vector comprising the isolated polynucleotide of Claim 43.
- 45. (Withdrawn): A host cell transformed with the expression vector of Claim 44.
- 46. (Withdrawn): A process of producing an isolated polypeptide comprising (a) culturing the host cell of Claim 45 under conditions sufficient for the production of the encoded polypeptide and (b) recovering the polypeptide.
- 47. (Withdrawn): An immunogenic composition comprising the isolated polynucleotide of Claim 43 or an expression vector comprising the isolated polynucleotide, effective in a vaccinated mammal to express the polypeptide.
- 48. (Withdrawn): A live immunogenic composition comprising the isolated polynucleotide of Claim 43 or an expression vector comprising the isolated polynucleotide comprised within a microorganism effective itself or through its host to express the polypeptide.
- 49. (Withdrawn): An isolated polynucleotide segment comprising a polynucleotide sequence or the full complement of the entire length of the polynucleotide sequence, wherein the polynucleotide sequence is identical to SEQ ID NO:1 or 3 minus any terminal stop codon, except that, over the entire length corresponding to SEQ ID NO:1 or 3 minus any terminal stop codon, \mathbf{n}_n nucleotides are substituted, inserted or deleted, wherein \mathbf{n}_n satisfies the following expression

wherein $\mathbf{x_n}$ is the total number of nucleotides in SEQ ID NO:1 or 3 minus any terminal stop codon, \mathbf{y} is at least 0.90, and wherein any non-integer product of $\mathbf{x_n}$ and \mathbf{y} is rounded down to the nearest integer before subtracting the product from $\mathbf{x_n}$; and wherein the polynucleotide sequence detects a polynucleotide of SEQ ID NO:1 or 3 minus any terminal stop codon.

- 50. (Withdrawn): The isolated polynucleotide of Claim 49 where y is at least 0.95.
- 51. (Withdrawn): An expression vector comprising the isolated polynucleotide of Claim 49 which codes for a polypeptide that, when administered to a mammal, induces an immune response that recognizes a polypeptide having the sequence of SEQ ID NO:2.
- 52. (Withdrawn): A host cell transformed with the isolated polynucleotide or an expression vector comprising the isolated polynucleotide of Claim 49.
- 53. (Withdrawn): A process of producing an isolated polypeptide comprising (a) culturing the host cell of Claim 52 under conditions sufficient for the production of the encoded polypeptide and (b) recovering the polypeptide.
- 54. (Cancelled).
- 55. (Currently Amended): The immunogenic composition of Claim 5435 further comprising an adjuvant.
- 56. (Previously Presented): The immunogenic composition of Claim 55 wherein the adjuvant induces a TH1-type response.
- 57. (Previously Presented): The immunogenic composition of Claim 55 the adjuvant is a member selected from the group consisting of 3D-MPL, QS21, a mixture of QS21 and cholesterol, and a CpG oligonucleotide.

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- 58. (Withdrawn): A method for inducing an immune response in a mammal comprising administration of the polypeptide of Claim 35.
- 59. (Withdrawn): A method for screening to identify compounds which stimulate or which inhibit the function of the polypeptide of Claim 35 which comprises a method selected from the group consisting of:
- (a) measuring the binding of a candidate compound to the said polypeptide (or to the cells or membranes bearing the polypeptide) or a fusion protein thereof by means of a label directly or indirectly associated with the candidate compound;
- (b) measuring the binding of a candidate compound to the polypeptide (or to the cells or membranes bearing the polypeptide) or a fusion protein thereof in the presence of a labeled competitor;
- (c) testing whether the candidate compound results in a signal generated by activation or inhibition of the said polypeptide, using detection systems appropriate to the cells or cell membranes bearing the polypeptide;
- (d) mixing a candidate compound with a solution containing the polypeptide of Claim 34, to form a mixture, measuring activity of the polypeptide in the mixture, and comparing the activity of the mixture to a standard; or
- (e) detecting the effect of a candidate compound on the production of mRNA encoding said polypeptide and said polypeptide in cells.
- 60. (Withdrawn): A method for the treatment of a subject by immunoprophylaxis or therapy comprising *in vitro* induction of immune responses to a polypeptide of Claim 35, using *in vitro* incubation of the polypeptide with cells from the immune system of a mammal, and reinfusing these activated immune cells to the mammal for the treatment of disease.
- 61. (Withdrawn): A method as claimed in Claim 60 wherein the treatment is for ovarian or colon cancer.
- 62. (Withdrawn): A process for diagnosing a disease or a susceptibility to a disease in a subject related to expression or activity of the polypeptide of Claim 35 in a subject

comprising: analyzing for the presence or amount of said polypeptide expression in a sample derived from said subject.

63. (Withdrawn): The process of claim 62, wherein the disease is colon cancer.